

Title (en)

CORRECTION OF BLOOD PRESSURE MEASUREMENTS IN INVASIVE LIQUID-FILLED SYSTEMS

Title (de)

KORREKTUR VON BLUTDRUCKMESSUNGEN BEI INVASIVEN FLÜSSIGKEITSGEFÜLLTEN SYSTEMEN

Title (fr)

CORRECTION DE MESURES DE PRESSION DANS LE CAS DE SYSTEMES INVASIFS REMPLIS D'UN LIQUIDE

Publication

**EP 1032302 B1 20051214 (DE)**

Application

**EP 98964367 A 19981120**

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Abstract (en)

[origin: US6290652B1] The invention relates to a method for the correction of measured value falsifications in invasive pressure measurements with a fluid-filled system, in which the measured pressure is passed via the fluid-filled system to an external pressure transducer, which converts the pressure signal into an electrical signal. To provide a method and a device for invasive pressure measurement with fluid-filled systems which are improved with respect to the correction of measured value falsifications, are cost-effective and versatile in their use, the electrical signal is passed through an analog/digital converter and the digitized signal is fed to a signal analyzing and processing unit, which operates on the basis of a digital Fourier analysis. Furthermore, a heartbeat-related or segmental analysis is carried out and the signal is combined with empirically determined correction data on the basis of the analysis. The correction data are emitted as Fourier coefficients and the signal corrected by the signal analyzing and processing unit is passed to an output and/or evaluating unit.

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